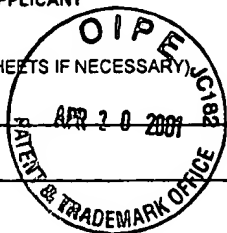


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|---|--|--|-------------------------------|
| FORM PTO-1449   | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>DATUMTE.006A         | APPLICATION NO.<br>09/771,144 |
| INFORMATION DISCLOSURE STATEMENT<br>BY APPLICANT<br><br>(USE SEVERAL SHEETS IF NECESSARY) |  | APPLICANT<br>William Dean Warner, et al. |                               |
|   |  | FILING DATE<br>January 26, 2001          | GROUP<br>Unknown              |



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| U.S. PATENT DOCUMENTS |                 |          |                   |       |          |                                 |
|-----------------------|-----------------|----------|-------------------|-------|----------|---------------------------------|
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER | DATE     | NAME              | CLASS | SUBCLASS | FILING DATE<br>(IF APPROPRIATE) |
| CO<br>↓               | 3,950,750       | 4/13/76  | Churchill, et al. |       |          |                                 |
|                       | 4,003,054       | 1/11/77  | Goldstone         |       |          |                                 |
|                       | 5,369,411       | 11/29/94 | Lisle, Jr.        |       |          |                                 |
|                       | 5,381,108       | 1/10/95  | Whitmarsh, et al. |       |          |                                 |
|                       | 5,872,538       | 2/16/99  | Fowler            |       |          |                                 |
|                       |                 |          |                   |       |          |                                 |

| FOREIGN PATENT DOCUMENTS |                 |         |         |       |          |             |    |
|--------------------------|-----------------|---------|---------|-------|----------|-------------|----|
| EXAMINER<br>INITIAL      | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|                          |                 |         |         |       |          | YES         | NO |
|                          | WO 98/32221     | 7/23/98 | PCT     |       |          |             |    |

| EXAMINER<br>INITIAL   | OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)  |
|---|---|
| CO  | A.I. Sinsky, et al., <i>Error Analysis of a Quadrature Coherent Detector Processor</i> , IEEE Transactions On Aerospace and Electronic Systems, November 1974, pp. 880-883.                                       |
|   | F.E. Churchill, et al., <i>The Correction of I and Q Errors in a Coherent Processor</i> , IEEE Transactions On Aerospace And Electronic Systems, Vol. AES-17, No. 1, January 1981, pp. 131-137.                   |
|   | J. Roome, <i>Analysis of quadrature detectors using complex envelope notation</i> , IEEE Proceedings, Vol. 136, Pt. F, No. 2, April 1989, pp. 95-100.   |
|   | M. Faulkner, et al., <i>Automatic Adjustment Of Quadrature Modulators</i> , Electronics Letters, Vol. 27, No. 3, January 31, 1991, pp. 214-216.   |
|   | J.K. Cavers, et al., <i>Adaptive Compensation for Imbalance and Offset Losses in Direct Conversion Transceivers</i> , IEEE Transactions On Vehicular Technology, Vol. 42, No. 4, November 1993, pp. 581-588.      |
|   | A. Lohlia, et al., <i>An Adaptive Digital Technique For Compensating For Analog Quadrature Modulator/Demodulator Impairments</i> , IEEE Pac Rim 1993, pp. 447-450.  |
|   | M. Faulkner, et al., <i>Adaptive Linearization Using Predistortion - Experimental Results</i> , IEEE Transactions On Vehicular Technology, Vol. 43, No. 2, May 1994, pp. 323-332.                                 |
|   | A. Mansell, et al., <i>Practical Implementation Issues For Adaptive Predistortion Transmitter Linearisation</i> , IEE, 1994.  |
|   | S.A. Leyonhjelm, et al., <i>The Effect of Reconstruction Filters on Direct Upconversion in a Multichannel Environment</i> , IEEE Transactions On Vehicular Technology, Vol. 44, No. 1, February 1995, pp. 95-102. |
|   | A. Lohlia, et al., <i>Adaptive digital linearization of RF power amplifiers</i> , Can. J. Elect. & Comp Eng., Vol. 20, No. 2, 1995.   |
|   | J.K. Cavers, <i>A Fast Method for Adaptation Of Quadrature Modulators And Demodulators In Amplifier Linearization Circuits</i> , IEEE 1996, pp. 1307-1311.  |
|   | G. Yang, et al., <i>I/Q Modulator Image Rejection Through Modulation Pre-distortion</i> , IEEE 1996, pp. 1317-1320.   |
| J.K. Cavers, <i>The Effect of Quadrature Modulator and Demodulator Errors on Adaptive Digital Predistorters for Amplifier Linearization</i> , IEEE Transactions On Vehicular Technology, Vol. 46, No. 2, May 1997, pp. 458-466. |   |

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|--|----------------------------|
| EXAMINER<br>Curtis Odum  | DATE CONSIDERED<br>12/1/04 |
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| FORM PTO-1449   | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>DATUMTE.008A         | APPLICATION NO.<br>09/771,144 |
| INFORMATION DISCLOSURE STATEMENT<br>BY APPLICANT<br><br>(USE SEVERAL SHEETS IF NECESSARY) |  | APPLICANT<br>William Dean Warner, et al. |                               |
|   |  | FILING DATE<br>January 26, 2001          | GROUP<br>Unknown              |

| EXAMINER<br>INITIAL | OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)   |
|---------------------|--|
| CO                  | K. T. RAMESH, New Methods for Adaptation of Quadrature Modulators and Demodulators in Amplifier Linearization Circuits, IEEE Transactions On Vehicular Technology, Vol. 46, No. 3, August 1997, pp. 707-716. |
| J                   | K. Gerlach, et al., An Adaptive Matched Filter that Compensates for I, Q Mismatch Errors, IEEE Transactions On Signal Processing, Vol. 45, No. 12, December 1997, pp. 3104-3107.                             |
| J                   | R. Marchesani, Digital Precompensation of Imperfections in Quadrature Modulators, IEEE Transactions On Communications, Vol. 48, No. 4, April 2000, pp. 552-556.  |
|                     | J.D. Owen, A Comparison Of Wide Bandwidth Quadrature Demodulators Using Computer Modelling, date and origin not known.   |
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